



VERSION 2.4.4

Installation Guide

July 2002

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ABOUT THIS BOOK

OBJECTIVE

This document describes how to install and use version 2.4.4 of SER10TY, Serena Software's licensing program. It will guide you through the procedures to set up and execute either the ISPF interface to the program, or the batch version of the program.

AUDIENCE

This document is intended for use by experienced system administrators who have extensive skills in installation, security, and configuration.

MANUAL ORGANIZATION

This document is organized as follows:

This section...	Contains this information...
Chapter 1	Introduction.
Chapter 2	Installation Procedures.
Appendix A	SERtificate Report. Examples of the form and content of SERtificates.
Appendix B	Trial License Agreement. Contains the text of the Trial License Agreement.

RELATED DOCUMENTS

The following documents may be useful when installing SER10TY:

- Serena™ ChangeMan® ZMF Installation Guide
- Serena™ Comparex® MVS Installation Guide
- Serena™ StarTool® RB VSAM User Guide
- Serena™ ChangeMan® SSM Installation Guide
- Serena™ ChangeMan® M+R Installation Guide
- Serena™ Connect Mainframe Installation Guide
- Serena™ StarTool® FDM Installation Guide
- Serena™ StarTool® StarWarp® Option Installation Guide

These documents are available on the EPIC CD-ROM in Adobe Acrobat format. The CD-ROM also contains the Adobe Acrobat Reader for viewing, searching, and printing the documents.

CONVENTIONS

The following conventions are used throughout this document:

Convention	Meaning
Bold	<ul style="list-style-type: none">Indicates graphical user interface items such as buttons, options, and dialogs.
<code>Courier</code>	<ul style="list-style-type: none">Indicates code or information the user must type.

GETTING SUPPORT

Serena Software provides extensive support on the Internet through the Serena eSupport self-service Web site. To access the eSupport site, go to <http://support.serena.com> and login with your ID and password to see the eSupport Customer Portal. From there, you can:

- Report new issues.
- Search our problem-tracking system for information about existing problems.
- View a knowledge base of frequently asked questions and helpful product hints.
- Query the call tracking database to obtain the current status of an open issue.
- Access our FTP server to download product fixes and documentation in PDF format.
- Subscribe to one of our mailing list servers (LISTSERVE) to receive the latest product information by e-mail.

If you need a password or ID, please e-mail or call the appropriate support department for your country.

Note For other product questions or requests, you may need to first contact a designated representative within your company before calling Serena Customer Support.

	United States, Canada	United Kingdom, Germany, Austria, France, Switzerland, BENELUX
Support Hours:	Monday through Friday 5:00 A.M. to 5:00 P.M. (Pacific Time)	Monday through Friday 7:30 A.M. to 6:00 P.M. (UK time)
E-mail:	support@serena.com	support@serena.com
URL:	http://support.serena.com	http://support.serena.com
Phone:	877.696.1850	44 1494 765888
Facsimile:	650.522.6698	44 1494 766888
For support in all other countries, please contact your local distributor.		

About This Book

INTRODUCTION

1

Serena Software is standardizing its process for licensing of all:

- Products
- Product options
- Expiration dates
- CPU-ID(s)

SER10TY helps with this standardizing process and:

- Augments tape delivery to customers.
- Enables you to turn options on and off.
- Enables you to set trial expiration dates by entering a key.

SER10TY modifies the object code to incorporate new expiration dates for a product, any options that you want to try or purchase, and any CPU-ID(s) for which your site and product are licensed.

Through the use of SERtificates, SER10TY enables you to update the object code, then perform a link of the object code to create an executable SERVERAO module.

SERENA SOFTWARE LICENSING PROCESS

You received an object module called SERVERAO, contained in the OBJECT library on your installation media. This module turns on the licensing of applications and associated options for the product that you will be installing.

When shipped, the SERVERAO module is generic. This means that it does not contain specifications for a customer name, city, or expiration date, and that none of the application's options are turned on. The SER10TY utility enables you to update these specifications to agree with your licensing information or trial requirements.

Chapter 1: Introduction

You also received a SERTificate document with your installation media. The SERTificate document contains the licensing information you will need to activate the base product and its options. This information includes:

- Your company name.
- Your city.
- A series of SERTificates, which are encrypted keys for turning on options, setting expiration dates, and specifying the CPU-ID(s) for which your site and product are licensed.

SER10TY modifies the object code using the SERTificates to reflect new expiration dates and any options that are to be turned on. The object code is modified, and a link-edit is performed to create a new executable SERVERAO module that implements appropriate licensing specifications when the product is started.

COMPONENTS AND DATA SETS

SER10TY components are distributed for each Serena product on that product's software distribution installation media.

The SER10TY components are placed in data sets, which contain other Serena components.

Unload these data sets to their respective product libraries as defined in the product's installation guide.

The following data sets are required:

- SERCOMx.VxRxMx.PANELS
- SERCOMx.VxRxMx.LOAD
- SERCOMx.VxRxMx.MESSAGES
- SERCOMx.VxRxMx.CNTL
- SERCOMx.VxRxMx.CLIST
- SERCOMx.VxRxMx.OBJECT

where x is:

- C for products in the Serena ChangeMan® family.
- S for products in the Serena StarTool® family.

INSTALLATION

2

SER10TY modifies the SERVERAO object code for new options or expiration dates for your installation. It also provides the mechanism for linking the object code into an executable module. SER10TY may be run as an ISPF utility or in batch. Instructions are provided for both options.

If you are running multiple Serena products, you must save each product-specific SERVERAO module into its product specific library. To create a product-specific SERVERAO module, you must use the SER10TY program and SERTificate at the same release level as the SERVERAO module.

You can use a single SERVERAO object module for all of your SERTificates; note however, that due to the chance of overlaying previous options, this is not recommended without advice from Serena Technical Support. See each product's documentation for specific details.

RUNNING SER10TY IN BATCH MODE

The SER10TY program can be run in batch mode by using the distributed JCL. Refer to your product's installation documentation to find the JCL member; it is usually `somnode.SERENA.SERCOMx.VxRxMx.CNTL(SER10JCL)`, where Vx.Rx.Mx indicates the Version, Release, and Mod level. You must tailor the sample JCL job to meet your site's requirements.

Parameters for batch mode are:

- `PARM='BATCH,VERIFY'` performs no updates of the object module. It reads the object module associated with DDNAME SYSUT1 and, for each SERTificate that is currently turned on in the object code, prints out a list of the:
 - SERTificates.
 - option.
 - corresponding expiration date for each SERTificate.
- `PARM='BATCH'` reads in the object module associated with SYSUT1. The program takes the SERTificates from SYSIN to update the object module, which is then written to SYSUT2.

Chapter 2: Installation

If you are going to execute a trial of one of Serena's products or options, you will receive the SERTificate with a 'TRIAL' statement on the end of the SERTificate. Please refer to [Appendix A, "SERTificate Report," on page 25](#) for an example of a SERTificate report.

For SER10TY to execute correctly and apply the option to the SERVERAO load module, you must change 'TRIAL' to 'ACCEPT'. By making this change, you are agreeing to the terms and conditions of Serena's Trial License Agreement. To see the full terms of the trial agreement, please refer to [Appendix B](#) of this manual.

If you choose not to accept the trial SERTificate, you can delete the SERTificate from the list of other SERTificates (or you can leave it in the SER10TY execution; you will receive the 'Trial SERTificate not accepted, not applied' message). SER10TY execution will continue, but that particular option will not be applied to the SERVERAO load module.

Sample JCL

The sample JCL found in somnode.product.CNTL(SER10JCL) contains the following steps:

1. Step 1 uses the parameter 'BATCH,VERIFY' and shows the options that are currently effective for object code SERVERAO.
2. Step 2 has the parameter 'BATCH', and it takes the SERTificates and applies them to the object code. The Customer Name and the SERTificates must be typed exactly as shown on the received report. If you receive the report electronically, you can cut and paste to avoid typing errors.

Note The Customer Name and SERTificates are case sensitive, and they must be pasted into the JCL with the setting "CAPS OFF".

Note If you plan to add more options later, you must save the object code output of this step. Specifically, the output is DDNAME SYSUT2 of STEP2.

3. Step 3 uses the updated parameter 'BATCH,VERIFY' and shows the updated options that are currently effective for object code SERVERAO.
4. Step 4 links the object code into your somnode.product.LOAD.

```
//jobname JOB (account),'SER10TY',           <=== Change Accordingly
//          CLASS=?,NOTIFY=?,               <=== Change Accordingly
//          MSGCLASS=?                      <=== Change Accordingly
//*
```

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```
/* Sample JCL to run the batch version of SER10TY.
/*
/* This JCL is composed of four steps. The first step runs
/* SER10TY with a parm of 'BATCHV' or 'Batch View'. This parm
/* tells SER10TY only to write to SYSPRINT the options and expiration
/* dates that are currently turned on in your SERVERAO object code.
/*
/* STEP2 is SER10TY with a parm of 'BATCH'. This step will read the
/* object code specified on SYSUT1, and update it with the information
/* taken from the //SYSIN cards. The new object code for SERVERAO
/* will be written to the data set specified on //SYSUT2.
/*
/* STEP3 is a re-run of STEP1, and shows what options are now turned
/* on in the object code that was updated in STEP2.
/*
/* The last step is a LINK step so that you can create a new SERVERAO
/* executable module. This module should be linked into or moved
/* into the data set that is the first in the concatenation of your
/* started task job.
/*
/* Note: Serena ships a blank SERVERAO. When Sertificates are
/* applied, a modified SERVERAO is created. There may be circumstances
/* where Sertificates must be re-applied. For this reason, a backup
/* copy of the blank SERVERAO is delivered in the OBJECT library under
/* the member name BAKVERAO.
/*
//STEP1      EXEC PGM=SER10TY,PARM='BATCH,VERIFY'
//STEPLIB DD  DISP=SHR,DSN=somnode.product.LOAD
//SYSUDUMP DD  SYSOUT=*
//SYSPRINT DD  SYSOUT=*
//SYSUT1 DD   DISP=SHR,DSN=somnode.product.OBJECT(SERVERAO)
//SYSIN DD    *
/*
//STEP2      EXEC PGM=SER10TY,PARM='BATCH'
//STEPLIB DD  DISP=SHR,DSN=somnode.product.LOAD
//SYSUDUMP DD  SYSOUT=*
//SYSPRINT DD  SYSOUT=*
//SYSUT1 DD   DISP=SHR,DSN=somnode.product.OBJECT(SERVERAO)
//SYSUT2 DD   DISP=SHR,DSN=somnode.product.OBJECT(SERVERAO)
//SYSIN DD    *
* Use the SERTificate report that was sent to you to update the
* following cards. Make sure that the information that you
* insert here is exactly like that of your SERTificate report, or
* errors may occur and your SERVERAO module will not be updated with
* the new options.
LICENSE=company name
CITY=city
LEVEL=freeform information
SERTIF=xxxx-xxxx-xxxx-xxxx-xxxx
```

Chapter 2: Installation

```
* End of SERTificates
//*
//STEP3      EXEC  PGM=SER10TY, PARM='BATCH,VERIFY'
//STEPLIB    DD    DISP=SHR,DSN=somnode.product.LOAD
//SYSUDUMP   DD    SYSOUT=*
//SYSPRINT   DD    SYSOUT=*
//SYSUT1     DD    DISP=SHR,DSN=somnode.product.OBJECT(SERVERAO)
//SYSIN      DD    *
//*
//STEP4      EXEC  PGM=IEWL,
//              COND=(4,LT),
//              PARM='LIST,XREF,NORENT,NOREFR,NCAL,MAP',
//              REGION=2M
//SYSPRINT   DD    SYSOUT=*
//SYSUT1     DD    UNIT=SYSDA,SPACE=(CYL,1)
//SYSLIB     DD    DISP=SHR,DSN=somnode.product.LOAD
//SYSLMOD    DD    DISP=SHR,DSN=somnode.product.LOAD
//SYSLIN     DD    DISP=SHR,DSN=somnode.product.OBJECT(SERVERAO)
//              DD    *
              ENTRY  SERVERAO
              NAME  SERVERAO(R)
```

The JCL can produce output that resembles the following:

SYSPRINT from Step 1 of SER10JCL

```
SER10TY  (MVS-2.4.3 08/02/01 13.31)   WEDNESDAY JULY 3, 2002      15:30:27
SER00A - SERVERAO options already in effect:*
SER01A -      LICENSE=Serena Software, Inc.
SER01A -      SERNET Mainframe Expiration Date: 2003/12/31
```

In this step, the original SERNET Mainframe expiration date is a date that has already expired. No options are in effect.

SYSPRINT from Step 2 of SER10JCL

```
SER10TY  (MVS-2.4.3 08/02/01 13.31)   WEDNESDAY JULY 3, 2002      15:30:29
SER01A -      LICENSE=Serena Software, Inc.
SER00A - * The following SERTificates should be applied to the SERVERAO object
SER00A - * code using the SER10TY batch or on-line program. If running
```

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```
SER00A - * SER10TY on-line, remove the SERTIF= part of the SYSIN card, and
SER00A - * just use the SERTificate as input. If you are a
SER00A - * trial running the SER10TY job in batch, remember
SER00A - * to replace the ",TRIAL" with ",ACCEPT"
SER00A - *
SER00A - LICENSE=Serena Software, Inc.
SER00A - CITY=San Mateo, CA
SER00A - LEVEL=Freeform Text
SER00A - SERTIF=SERI-0000-0005-0040-4049
SER01I - SERNET Mainframe Expiration Date: 2003/12/31
SER01I - Concurrent Server Users: 5
SER00A - SERTIF=CMNC-0077-6512-2754-4A43
SER00A - SERTIF=SERC-0077-6270-0642-4041
SER00A - SERTIF=CMN0-0000-BBHH-1363-744D
SER01I - Change Man INFO Option: 2003/12/31
SER00A - *
```

The output from the Step 2 shows that the input SERTificate cards were all entered correctly and that the SERNET Mainframe expiration date has been updated to December 31, 2003.

Four options have been turned on with an expiration date of December 31, 2003:

- There are now 5 concurrent server users possible
- The Change Man main product
- Change Man INFO option
- Change Man Merge and Reconcile option

SYSPRINT from Step 3 of SER10JCL

```
SER10TY (MVS-2.4.3 08/02/01 13.31) WEDNESDAY JULY 3, 2002 15:36:44
SER00A - SERVERAO options already in effect:*
SER01A - LICENSE=Serena Software, Inc.
SER01A - SERNET Mainframe Expiration Date: 2003/12/31
SER01A - SERA-3D59-0005-0374-4548 Concurrent Server Users: 5
SER01A - CMN0-3D59-HHHH-1A5D-7144 Change Man Option: 2003/12/31
SER01A - CMN0-3D59-HBHH-1A57-7144 Change Man INFO Option: 2003/12/31
SER01A - CMN0-3D59-BHHH-105D-7144 Change Man M+R Option: 2003/12/31
SER01A - CMNC-0077-6512-2754-4A43
SER01A - SERC-0077-6270-0642-4041
```

Chapter 2: Installation

The output from Step 3 confirms that the object code for SERVERAO has been updated for all of the options requested.

Error Codes for SER10TY Batch Jobs

Error codes for SER10TY batch jobs pertain only to steps where PARM=BATCH is specified. Those steps where PARM='BATCH,VERIFY' is specified will always have RC=0 because they are in VIEW mode.

A Return Code of 0 means that the step ran correctly, and that permanent expiration dates were applied to SERVERAO.

A Return Code of 4 means that the step ran correctly, and that some non-permanent expiration dates were applied to SERVERAO.

A Return Code of 8 means that there was an error in one or more of the SERTificates, and that the step did not run to completion. Refer to the messages in the Error Messages section of this manual (*"ISPF Error Messages" on page 24*) to determine what is wrong with the SERTificate.

RUNNING SER10TY WITH THE ISPF INTERFACE

Start the SER10TY ISPF interface by issuing a command, or by selecting a panel option. You are presented with a panel requesting that you enter your customer corporate name, city, freeform comments, location of the object code library, and the load module library.

After the information is entered, SER10TY displays another panel containing the SERNET expiration date and a table of SERTificates that are currently generated by the object code.

You can enter new SERTificates, or modify the existing ones.

SER10TY validates new keys and the customer name. SER10TY displays an error message if the data has been entered incorrectly, and lets you re-enter data.

If the data is valid, SER10TY reports which options are being set, and what expiration dates are being entered. If you confirm these details, SER10TY updates the object code with appropriate settings and expiration dates. Then a linkage edit is performed to create an updated load module.

Invoking the ISPF Interface

It is recommended that you use an allocation CLIST to allocate the SER10TY libraries to the ISPF region. The allocations are temporary, and are released when you exit from SER10TY.

Refer to the following sample code:

```
PROC 0
CONTROL MAIN
/* DROP THE PREVIOUS ALLOCATIONS */
ISPEXEC LIBDEF ISPLLIB
ISPEXEC LIBDEF ISPLLIB
ISPEXEC LIBDEF ISPLLIB
/* DYNAMICALLY ALLOCATE ISPLLIB DATASETS.
ISPEXEC LIBDEF ISPLLIB DATASET ID('somnode.product.LOAD' )
ISPEXEC LIBDEF ISPLLIB DATASET ID('somnode.product.PANELS')
ISPEXEC LIBDEF ISPLLIB DATASET ID('somnode.product.MESSAGES')
ISPEXEC SELECT CMD(CALL 'somnode.product.LOAD(SER10TY)' ) +
    NEWAPPL(SER1) PASSLIB NEWPOOL
/* REESTABLISH PREVIOUS ALLOCATIONS */
ISPEXEC LIBDEF ISPLLIB
ISPEXEC LIBDEF ISPLLIB
ISPEXEC LIBDEF ISPLLIB
```

Modify this CLIST with the data set names created for your site, then place it into a library that is available to your TSO session. This CLIST can be set up on a panel and run from there (normal method), or it can be executed as a TSO command:

EXEC somnode.product.CLIST(SER10TY)'.

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The following panel is displayed:

SER10TY ----- SERTificate Validation ----- Row 1 of 12
COMMAND ==> SCROLL ==> PAGE

Press ENTER or END to continue or type CANCEL to exit.

Customer Name ==> Serena Software, Inc.
(Must be typed exactly as in SERTificate Report)
Customer City ==> San Mateo, CA
(Must be typed exactly as in SERTificate Report)

Freeform Comments ==> Freeform Text

Object DSN ==> object library
Linklib DSN ==> load library

The following table describes the panel fields and the information you can enter on the panel:

Field	Description
Customer Name	Must be typed exactly as shown on the SERTificate document.
Customer City	Must be typed exactly as shown on the SERTificate document.
Freeform Comments	<p>This is 54 characters of freeform text. What you insert here displays in the SERNET started task, if the product you are installing uses a started task.</p> <p>We recommend that you describe the current fix release of your product in the Freeform Comments area; for example: "CMN 5.1.1."</p>

Field	Description
Object DSN	<p>The customer's object library where the SERVERAO object resides. This can be a PDS or a sequential file. You have the option either to:</p> <ul style="list-style-type: none"> Specify the generic object module which came with your product tape. or If you have previously modified your object code, you can specify that module name. <p>Note: If you would like to use the generic SERVERAO object but you have modified it with a previous run of SER10TY, a copy of the SERVERAO object is delivered in the OBJECT library under the name BAKVERAO.</p>
Linklib DSN	<p>The LOAD library where the new load module resides. If you are not linking into your production library, you must move the SERVERAO module from this library to the production library that is specified in the started task STEPLIB concatenation.</p>

It is not necessary to specify 'SERVERAO' as the member name on either the **Object DSN** or the **Linklib DSN** fields. If a name other than 'SERVERAO' is specified, it is used. If no member name is specified, SERVERAO is used (default).

Chapter 2: Installation

When you are finished with this panel, press **Enter**; the following SER10TY2 panel displays:

```
SER10TY2 ----- SERTificate Validation ----- Row 1 to 1 of 1
COMMAND ==>                                SCROLL ==> PAGE

The following options are the original options found in the object
code. Use I, R, or D to INSERT, REPEAT, or DELETE a SERTificate.
To modify the object code and link the SERVERAO module, when you are
finished altering the SERTificates and there are no error messages
displayed, enter SV at the command line.

To exit without change, enter END Command.

Serena Network:          PERMANENT LICENSE

' ' ' '
***** Bottom of data *****
```

Panel SER10TY2 Default Settings

The first time you run SER10TY, you will see the version of SER10TY2 shown following.

```
SER10TY2 ----- CERTificate Validation ----- Row 1 to 4 of 4
COMMAND ==>                                SCROLL ==> PAGE

The following options are the original options found in the object
code. Use I, R, or D to INSERT, REPEAT, or DELETE a CERTificate.
To modify the object code and link the SERVERAO module, when you are
finished altering the CERTificates and there are no error messages
displayed, enter SV at the command line.

To exit without change, enter END Command.

Serena Network:          2002/12/31

'''' SERA-3D59-0005-0374-4548  Concurrent Server Users:      5      TRIAL
'''' CMNC-0077-6512-2754-4A43
'''' SERC-0077-6270-0642-4041
'''' CMN0-3D59-BBHH-1057-7144  Change Man INFO Option:      2002/12/31  TRIAL
***** Bottom of data *****
```

This panel consists of:

- A non-editable SERNET Mainframe date for the SERNET expiration date.
- An editable table to contain all relevant CERTificates.

SERtificates

You can key the SERtificates into the table that you receive with your installation media (see [Appendix A, “SERtificate Report,” on page 25](#) for an example of the SERtificate report).

There should be:

- A SERx-xxxx-xxxx-xxxx-xxxx SERtificate for setting the SERNET expiration date and concurrent users. The SERtificate report may show information other than the SERtificate, such as “SERTIF=” or “,TRIAL”. For online processing, ignore these characters, and add only the 24-character SERtificate to the ISPF table.
- One or more product specific SERtificates to turn on an option, an expiration date, and the CPU-ID(s) for which your site and product are licensed.
- If the SERtificate is for an option that is going to be trialed (has an expiration date), the word “TRIAL” is displayed in the right-most column of the table.

After entering a SERtificate(s), a validation process occurs. If a problem exists with the SERtificate specifications, an error message displays in the table. Processing cannot continue until the SERtificate is corrected or deleted.

When all of the SERtificates have been correctly inserted, type **SV** at the command line. If there are any TRIAL SERtificates defined on panel SER10TY2, panel SERLIC01 will appear asking you to accept or reject the terms of the Serena Software Trial License Agreement.

```
SERLIC01 ----- SERENA Software Trial License Agreement -----  
COMMAND ==>
```

```
You have entered a license key(s) which is for trial software on the  
previous panel. You should read the terms and conditions of the license  
and acknowledge your acceptance of these terms by typing YES in the space  
below and pressing ENTER. If you do not wish to accept the terms  
press END and the trial software will be disabled
```

```
I ACCEPT THE TERMS AND CONDITIONS STATED BELOW ==>NO (Press END to exit)
```

(To see the full text of panel SERLIC01, please refer to [Appendix B](#) of this manual.)

If you answer “NO” to “I ACCEPT THE TERMS AND CONDITIONS STATED BELOW”, you will be returned to the previous panel, SER10TY2.

If you answer “YES” to this question, the SERVERAO object code will be updated with the new options and a LINKEDIT (IEWBLINK) is performed. Because SYSPRINT is allocated to the terminal, the link-edit output displays online.

Link-Edit Messages

If the link-edit was:

- Performed with a return code of 0, you are returned to the original SER10TY panel and the short message 'SERVERAO Linked' displays. To see more information, press PF1 and the long message 'SER804 - SERtification Complete – linklib data set (member)' displays.
- If the link-edit was not successful, you are returned to the SER10TY panel and the message 'SERtification failed – Link Edit Return Code = x' displays.

Note Even if the link-edit fails, the object code is updated, because it has to be updated before the link-edit occurs. If there is a link failure, there is no automatic removal of updates from the object code.

After SERtification, when you return to panel SER10TY2, all SERtificates display in the table and can be edited if changes are required. This occurs if either:

- An expiration date needs to be extended
- You choose to make an option permanent

You can insert, repeat, or delete table rows depending on your SERtificate needs at the time. Anytime a SERtificate update occurs, you must execute the 'SV' command to update the object code and relink the load module.

If you END or CANCEL from the SER10TY2 panel after making changes to the table, the changes are lost and you need to re-enter the changes.

ISPF Error Messages

SERTificate messages:

- 'Unrecognized keyword!' - One of parameters in SYSIN is not recognized
- 'pppn-aaaa-bbbb-cccc-dddd is proper format!' – The SERTificate is not typed in properly
- 'ppp is not recognized SERENA product code!' – The first 3 bytes of the SERTificate, which should be a product code, are incorrect
- 'Invalid SERTificate; check Customer Name and SERTificate Number' – The customer name or SERTificate number are incorrect. Make sure that the SERTificate number and customer name match exactly the SERTificate number and customer name on the SERTificate sent by Serena.
- 'Invalid expiry date; check SERTificate number!'
- 'Invalid value; check SERTificate number!' – The option byte (first node, 4th byte, i.e. the 'x' in 'SERx-') is not 0,1 or 2. OR The value of the 3rd node is not a hex value (0-9 or A-F)
- 'The requested data set could not be allocated in the foreground' – If an error in a SERTificate occurs, the process will not update the object module. All SERTificates must be valid in order for the process to continue.

SERTIFICATE REPORT



Example SERTificate

The following is an example of a SERTificate that you will receive:

```
* The following SERTificates should be applied to the SERVERAO object
* code using the SER10TY batch or on-line program. If running
* SER10TY on-line, remove the SERTIF= part of the SYSIN card, and
* just use the SERTificate as input. If you are a
* trial running the SER10TY job in batch, remember
* to replace the ",TRIAL" with ",ACCEPT"
*
LICENSE=Your company
CITY=Your City
LEVEL=Freeform Text
SERTIF=SERA-3D59-0005-0374-4548,TRIAL
SERTIF=CMNC-0077-6512-2754-4A43
SERTIF=SERC-0077-6270-0642-4041
SERTIF=CMN0-3D59-BBHH-1057-7144,TRIAL
```

Example Batch Mode SERTificate

To apply the SERTificate in batch mode, change “,TRIAL” to “,ACCEPT”, then apply the SERTificate to the SERVERAO.

Following is an example of a SERTificate that is ready to be applied (in batch mode) to the SERVERAO:

```
LICENSE=Your company
CITY=Your City
LEVEL=Freeform Text
SERTIF=SERA-3D59-0005-0374-4548,ACCEPT
SERTIF=CMNC-0077-6512-2754-4A43
SERTIF=SERC-0077-6270-0642-4041
SERTIF=CMN0-3D59-BBHH-1057-7144,ACCEPT
```

Appendix A: *SERtificate Report*

Example ISPF Interface SERtificate

To apply the SERtificate in through the ISPF interface (online), remove the “SERTIF=” and “,TRIAL”, then apply the SERtificate to the SERVERAO.

Following is an example of a SERtificate that is ready to be applied through the ISPF interface (online) to the SERVERAO:

```
Your company
Your City
Freeform text
SERA-3D59-0005-0374-4548
CMNC-0077-6512-2754-4A43
SERC-0077-6270-0642-4041
CMN0-3D59-BBHH-1057-7144
```

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